

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A zoom lens having a first lens group fixed upon zooming and having a positive refractive power, a second lens group having a negative refractive power, a third lens group having a positive refractive power, a fourth lens group having a negative refractive power, and a fifth lens group having a positive refractive power, which are successively arranged in this order from an object side, wherein the third lens group is fixed and at least the second lens group and the fourth lens group are moved for zooming, wherein the fourth lens group moved in one linear direction when the second and fourth lens groups are moved for zooming, and wherein

said first lens group comprises a first single lens having a negative refractive power, a reflective member for bending an optical path through 90°, and at least one second lens having a positive refractive power, which are successively arranged in [[the]] this order from the object side.

Claim 2 (Original): The zoom lens according to claim 1, which satisfy the following conditional formulas (1), (2):

$$(1) \ 1.0 < D1/Fw < 5.0; \text{ and}$$

$$(2) \ 0.1 < D1/Ft < 1.0$$

where

D1: the entire lens length of the first lens group;

Fw: the focal length of the entire lens system at a wide-angle end state; and

Ft: the focal length of the entire lens system at a telescopic end state.

Claim 3 (Previously Presented): The zoom lens according to claim 1, which satisfy the following conditional formulas (3), (4):

$$(3) \text{NdL1} > 1.75; \text{ and}$$

$$(4) \text{VdAv} - \text{VdL1} > 15$$

where

NdL1: the refractive index of the first lens at the d-line;

VdL1: the Abbe number of the first lens at the d-line; and

VdAv the average of the Abbe numbers of the lenses having a positive refractive power subsequent to the second lens in the first lens group where VdAv is determined by $(\sum \text{VdLi})/i$ where i represents the number of lenses having a positive refractive power subsequent to the second lens.

Claim 4 (Previously Presented): The zoom lens according to claim 2, which satisfy the following conditional formulas (3), (4):

$$(3) \text{NdL1} > 1.75; \text{ and}$$

$$(4) \text{VdAv} - \text{VdL1} > 15$$

where

NdL1: the refractive index of the first lens at the d-line;

VdL1: the Abbe number of the first lens at the d-line; and

VdAv the average of the Abbe numbers of the lenses having a positive refractive power subsequent to the second lens in the first lens group where VdAv is determined by $(\sum \text{VdLi})/i$ where i represents the number of lenses having a positive refractive power subsequent to the second lens.

Claim 5 (Previously Presented): The zoom lens according to claim 1, wherein the third lens group has an iris aperture and the third lens group and the iris aperture are both fixed upon zooming.

Claim 6 (Previously Presented): The zoom lens according to claim 2, wherein the third lens group has an iris aperture and the third lens group and the iris aperture are both fixed upon zooming.

Claim 7 (Previously Presented): The zoom lens according to claim 3, wherein the third lens group has an iris aperture and the third lens group and the iris aperture are both fixed upon zooming.

Claim 8 (Previously Presented): The zoom lens according to claim 4, wherein the third lens group has an iris aperture and the third lens group and the iris aperture are both fixed upon zooming.

Claim 9 (Previously Presented): An image pickup apparatus comprising a zoom lens having a plurality of lens groups, for varying a magnifying power by changing distances between at least some of the lens groups, and a image sensing device for converting an optical image generated by said zoom lens into an electric signal, wherein

said zoom lens comprises a first lens group fixed upon zooming and having a positive refractive power, a second lens group, movable for zooming, having a negative refractive power, a fixed third lens group having a positive refractive power, a fourth lens group, movable for zooming, having a negative refractive power, and a fifth lens group having a positive refractive power, which are successively arranged in this order from an object side,

wherein at least the second lens group and the fourth lens group are moved for zooming,
wherein the fourth lens group moves in one linear direction when the second and fourth lens
groups are moved for zooming and wherein

said first lens group comprises a first single lens having a negative refractive power, a
reflective member for bending an optical path through 90°, and at least one second lens
having a positive refractive power, which are successively arranged in this order from the
object side.

Claim 10 (Previously Presented): The zoom lens of claim 1, wherein the fourth lens
group moves only in a linear non-curved fashion.

Claim 11 (Previously Presented): The image pickup apparatus of claim 9, wherein the
fourth lens group moves only in a linear, non-curved fashion.